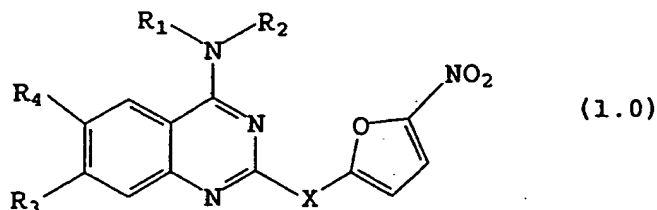


CLAIMS:

1. A compound of the formula



wherein

X is absent or trans or cis CHCH,

R<sub>1</sub> is (C<sub>1</sub>-C<sub>10</sub>)alkyl unsubstituted or substituted by one to three hydroxy, (C<sub>1</sub>-C<sub>10</sub>)alkenyl unsubstituted or substituted by one to three hydroxy, (C<sub>1</sub>-C<sub>10</sub>)alkynyl unsubstituted or substituted by one to three hydroxy, or aryl unsubstituted or substituted by one to three hydroxy;

R<sub>2</sub> is hydrogen, alkyl or aryl;

R<sub>3</sub> and R<sub>4</sub> are, independently of each other, H, halogen, or a solubilizing group,

with the proviso that at least one of R<sub>3</sub> and R<sub>4</sub> is halogen;

or a pharmaceutically acceptable salt thereof.

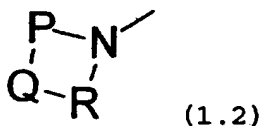
2. A compound according to claim 1, wherein R<sub>1</sub> is aryl unsubstituted or substituted by one to three hydroxy and R<sub>2</sub> is hydrogen.

3. A compound according to claim 1, wherein R<sub>1</sub> is aryl substituted by one hydroxy and R<sub>2</sub> is hydrogen.

4. A compound according to any one of claims 1 to 3, wherein R<sub>4</sub> is a halogen.

5. A compound according to any one of claims 1 to 3, wherein  $R_4$  is fluorine.

6. A compound according to any one of claims 1 to 3, wherein the solubilizing group of  $R_3$  or  $R_4$  is



wherein:

P and R are each independently selected from  $CH_2$ ,  $CH_2CH_2$  and  $CH_2CHT$  where T is alkyl, and

Q is O, S, NH or  $NCH_3$ .

10 7. A compound according to claim 6, wherein  $R_3$  is a halogen and  $R_4$  is partial formula (1.2) wherein Q is NH or  $NCH_3$ .

8. A compound according to claim 6 or claim 7, wherein Q is  $NCH_3$ .

15 9. A compound according to any one of claims 1 to 8, wherein  $R_3$  is an amine containing heterocycle.

10. A compound according to any one of claims 1 to 8, wherein  $R_3$  is N-methylpiperazine.

11. A compound according to any one of claims 1 to 10.  
20 wherein X is trans CHCH.

12. A compound according to any one of claims 1 to 11, wherein  $R_1$  is hydroxyethanol.

13. A compound according to any one of claims 1 to 11, wherein  $R_1$  is hydroxyaniline.

14. A compound according to any one of claims 1 to 11, wherein R<sub>1</sub> is hydroxyphenyl.
15. A compound according to any one of claims 1 to 11, wherein R<sub>1</sub> is 2-hydroxyethanol.
- 5 16. A compound according to any one of claims 1 to 11, wherein R<sub>1</sub> is 4-hydroxyaniline.
17. A compound according to any one of claims 1 to 11, wherein R<sub>1</sub> is 4-hydroxyphenyl.
18. A compound according to any one of claims 1 to 17,  
10 wherein R<sub>2</sub> is phenyl, substituted phenyl, pyranyl, substituted pyridinyl, thiophenyl, substituted thiophenyl, furanyl, substituted furanyl, thiazole, oxazole or substituted or unsubstituted imidazole.
19. A compound according to claim 12 or claim 15,  
15 wherein R<sub>2</sub> is N-alkyl imidazole.
20. A compound of the formula 6-fluoro-2-[2-(5-nitro-2-furyl)vinyl]-4-(p-hydroxyanilino)-quinazoline.
21. A compound of the formula 7-(4-methylpiperazino)-6-fluoro-2-[2-(5-nitro-2-furyl)vinyl]-4-(p-hydroxyanilino)-  
20 quinazoline.
22. A compound of the formula 6-fluoro-2-[2-(5-nitro-2-furyl)vinyl]-4-chloroquinazoline.
23. A compound of the formula 7-(4-methyl piperazino)-6-fluoro-2-[2-(5-nitro-2-furyl)vinyl]-4-chloroquinazoline.
- 25 24. A compound of the formula 6-fluoro-2-[2-(5-nitro-2-furyl)vinyl]-4-(3H)quinazolinone.

25. A compound of the formula 7-(4-methylpiperazino)-6-fluoro-2-[2-(5-nitro-2-furyl)vinyl]-4-(3H)quinazolinone.

26. A composition comprising a compound according to any one of claims 1 to 21.

5 27. A composition comprising a compound according to any one of claims 1 to 21, and a carrier, diluent or excipient.

28. A pharmaceutical composition comprising the compound according to any one of claims 1 to 21, and a  
10 pharmaceutically acceptable carrier.

29. A method for treating a bacterial infection in a human or an animal, comprising administering to said human or said animal a therapeutically effective amount of a compound according to any one of claims 1 to 21, effective  
15 in treating the bacterial infection.

30. A method of preventing a bacterial infection in a human or an animal, comprising administering to said human or said animal a prophylactically effective amount of a compound according to any one of claims 1 to 21 effective to  
20 prevent the bacterial infection.

31. A method for disinfecting an object, including a human, of bacteria, comprising: contacting the object with the compound according to any one of claims 1 to 21 in an amount and for a time sufficient to achieve a desired degree  
25 of disinfection.

32. A method of use of the compound according to any one of claims 1 to 21, for antisepsis of an object, including a human, of bacteria, comprising: contacting the object with the compound according to any one of claims 1 to

21 in an amount and for a time sufficient to achieve a desired degree of antiseptis.

33. A method for sterilizing a surface of an object, including a human, of bacteria, which comprises: selecting  
5 an area of the surface for sterilization and applying the compound according to any one of claims 1 to 21, onto the surface of the object in an amount and for a time sufficient to achieve sterilization.

34. Use of the compound according to any one of  
10 claims 1 to 21, in the manufacture of a medicament for treating or preventing bacterial infection.

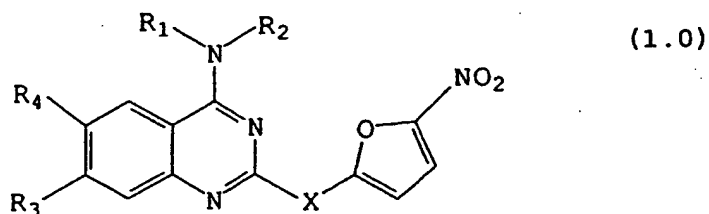
35. Use of the compound according to any one of claims 1 to 21, for treating or preventing bacterial infection in humans or animals.

15 36. Use of the compound according to any one of claims 1 to 21, for disinfection.

37. Use of the compound according to any one of claims 1 to 21, for antiseptis.

38. Use of the compound according to any one of  
20 claims 1 to 21, for sterilization.

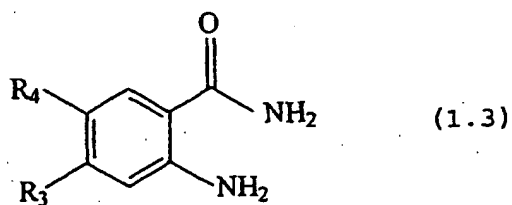
39. A process for the preparation of a compound of formula 1.0



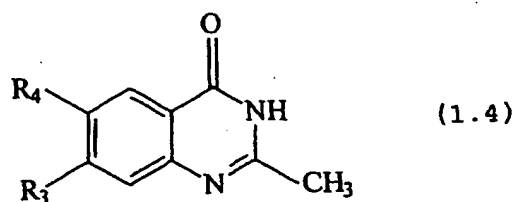
wherein R<sub>1</sub>, R<sub>2</sub>, R<sub>3</sub> and R<sub>4</sub> are as defined in claim 1,

the process comprising:

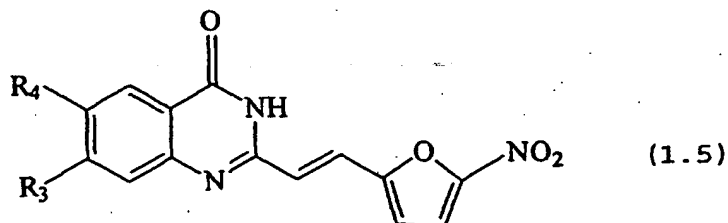
a) reacting a compound of formula (1.3)



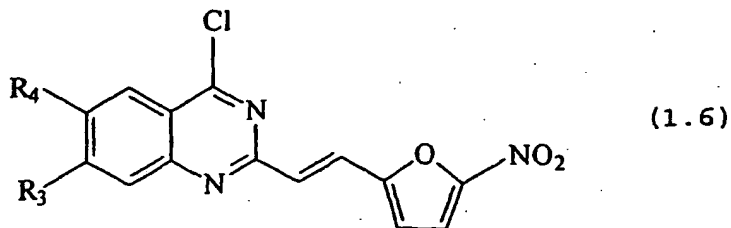
with hydrochloric acid, acetic anhydride and aqueous ammonia, to form a compound of formula (1.4)



b) reacting the compound of formula 1.4 with 5-nitro-2-furancarboxaldehyde, to form a compound of formula (1.5)

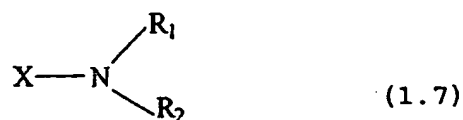


c) reacting the compound of formula 1.5 with phosphorus pentachloride and phosphorus oxychloride to form a compound of formula (1.6)



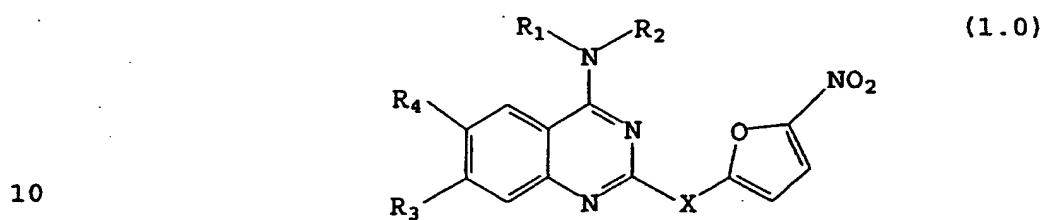
and

d) reacting the compound of formula 1.6 with a compound of the formula (1.7)



5 wherein X is H and R<sub>1</sub> and R<sub>2</sub> are as defined above.

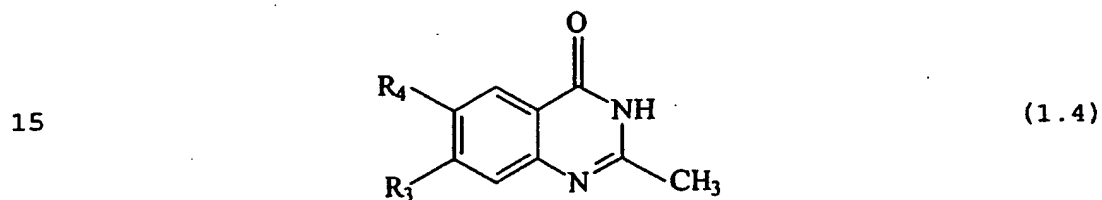
40. A process for the preparation of a compound of formula 1.0



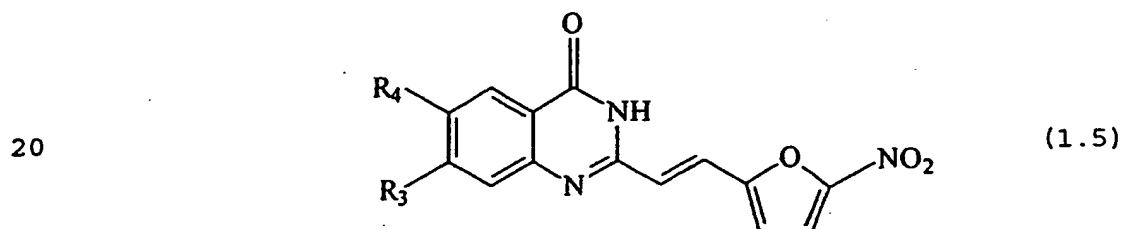
wherein R<sub>1</sub>, R<sub>2</sub>, R<sub>3</sub> and R<sub>4</sub> are as defined in claim 1,

the process comprising:

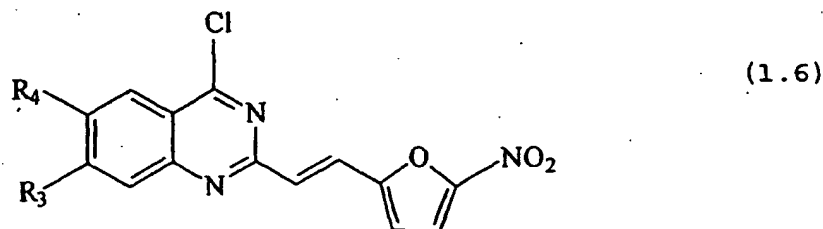
b) reacting a compound of formula 1.4



with 5-nitro-2-furancarboxaldehyde, to form a compound of formula (1.5)



c) reacting the compound of formula 1.5 with phosphorus pentachloride and phosphorus oxychloride to form a compound of formula (1.6)



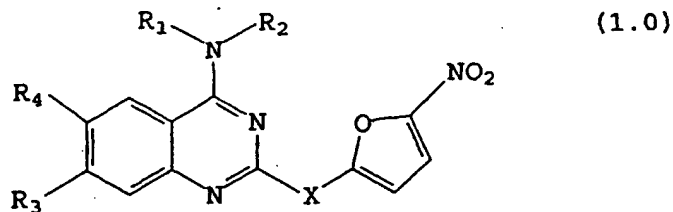
and

d) reacting the compound of formula 1.6 with a  
10 compound of the formula (1.7)



wherein X is H and R<sub>1</sub> and R<sub>2</sub> are as defined above.

41. A process for the preparation of a compound of  
15 formula 1.0

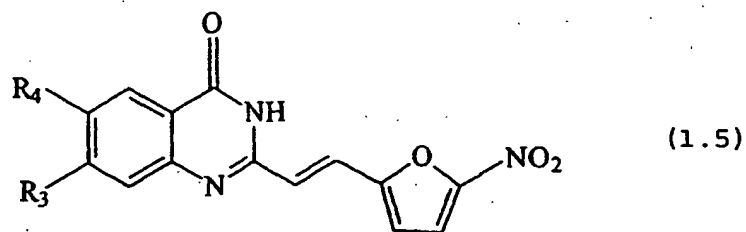


wherein R<sub>1</sub>, R<sub>2</sub>, R<sub>3</sub> and R<sub>4</sub> are as defined in claim 1,

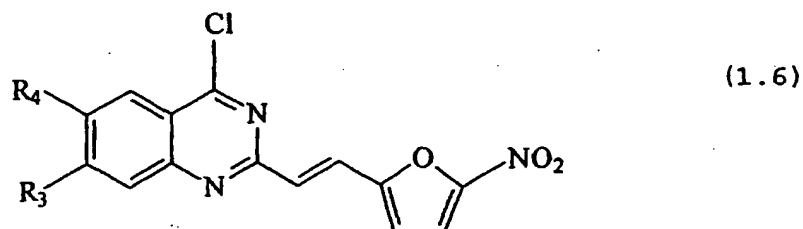
20 the process comprising:



c) reacting a compound of formula 1.5



with phosphorus pentachloride and phosphorus oxychloride to form a compound of formula (1.6)



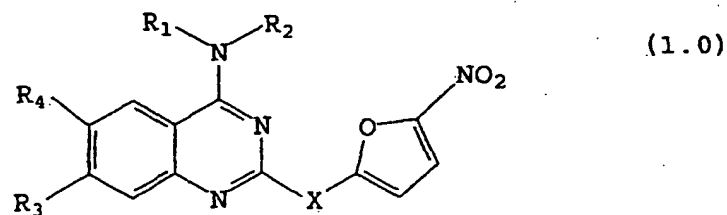
and

d) reacting the compound of formula 1.6 with a compound of the formula (1.7)



wherein X is H and R<sub>1</sub> and R<sub>2</sub> are as defined above.

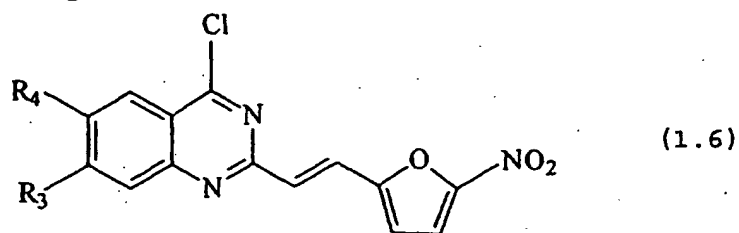
42. A process for the preparation of a compound of formula 1.0



wherein  $R_1$ ,  $R_2$ ,  $R_3$  and  $R_4$  are as defined in claim 1,

the process comprising:

d) reacting a compound of formula 1.6



with a compound of the formula (1.7)



10 wherein X is H and  $R_1$  and  $R_2$  are as defined above.